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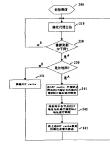
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(54) Title: CROSS-IP INTERNET ROAMING METHOD FOR MOBILE TERMINAL

(54) 发明名称: 空现移动终端跨IP网际漫游的方法



200 ... INITIALIZING COMMUNICATION 210 RECEIVING THE AGENT'S NOTIFICATION 220 ROAMING TO A NEW IP SUBNET?

230 ..FOREIGN NETWORKS? 241 ..BINDING THE IP ADDRESS OF THE DEFAULT GATEWAY TO THE MAC ADDRESS OF THE FOREIGN AGENT IN THE ARP CACHE 242 . BINDING THE IP ADDRESS OF EACH NODE IN THE HOME NETWORKS TO THE MAC ADDRESS OF THE FOREIGN AGENT

243...SET THE BINDING ATTRIBUTE OF THE ARP CACHE TO BE STATIC 251...CLEANING THE ARP CACHE

A... YES B... NO

(57) Abstract: An active Address Resolution Protocol is used in the present invention, and thus a method is achieved which allows the mobile terminal to roam in different IP networks without modifying the routing entry of the mobile terminal, and therefore enables the conventional TCP/IP protocol to support the mobility. When determining that it has roamed to a foreign network by receiving the notification of the foreign agent, the mobile terminal would perform the active address resolution protocol so as to bind the MAC address of the foreign agent (8) to the IP address of default gateway of the mobile terminal (5) in the ARP cache, and the mobile terminal would set its attribute static when modifying the ARP cache. When determining it has returned to the home networks from the foreign networks, the mobile terminal would clear the ARP cache, thereafter it would establish an ARP cache table in accordance with the normal ARP operation, resume the attribute of the ARP cache to be dynamic and perform the normal transmission and reception of IP data.

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